

Title (en)

METHOD AND SYSTEM FOR UPLINK RADIO RESOURCE ALLOCATION IN AN LTE COMMUNICATION SYSTEM

Title (de)

VERFAHREN UND SYSTEM ZUR UPLINK-FUNKRESSOURCENZUWEISUNG IN EINEM LTE-KOMMUNIKATIONSSYSTEM

Title (fr)

PROCÉDÉ ET SYSTÈME D'ALLOCATION DE RESSOURCE RADIO EN LIAISON MONTANTE DANS UN SYSTÈME DE COMMUNICATION LTE

Publication

**EP 2904864 B1 20190918 (EN)**

Application

**EP 13843701 A 20131004**

Priority

- US 201261710466 P 20121005
- CA 2013050750 W 20131004

Abstract (en)

[origin: US2014098781A1] The present technology provides a method, apparatus and system for facilitating uplink communication from a user equipment (UE) to a base station in an LTE communication system. One or more frequency subcarriers within a predetermined LTE resource block are selected, covering less than the entire frequency range of the LTE resource block. The selected one or more frequency subcarriers are then used for communication from the UE to the base station.

IPC 8 full level

**H04L 5/00** (2006.01); **H04L 27/26** (2006.01); **H04W 72/12** (2009.01)

CPC (source: CN EP US)

**H04L 5/0012** (2013.01 - CN EP US); **H04L 5/0037** (2013.01 - CN EP US); **H04L 5/0082** (2013.01 - CN EP US);  
**H04L 5/0094** (2013.01 - CN EP US); **H04L 27/2618** (2013.01 - CN EP US); **H04W 72/0446** (2013.01 - US); **H04W 72/1268** (2013.01 - CN EP US)

Citation (examination)

LG ELECTRONICS: "UL sounding RS Operation", 3GPP DRAFT; R1-081249 UPLINK SOUNDING RS, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. Shenzhen, China; 20080326, 26 March 2008 (2008-03-26), XP050109692

Cited by

US10009831B2; US11395291B2; US10455575B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**US 10455575 B2 20191022**; **US 2014098781 A1 20140410**; CN 104823501 A 20150805; EP 2904864 A1 20150812; EP 2904864 A4 20160427;  
EP 2904864 B1 20190918; WO 2014053065 A1 20140410

DOCDB simple family (application)

**US 201314046475 A 20131004**; CA 2013050750 W 20131004; CN 201380063488 A 20131004; EP 13843701 A 20131004